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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,057	08/30/2006	Yongsok Seo	BHT/3162-20	4623
23995	7590 01/07/2010		EXAMINER NUTTER, NATHAN M	
RABIN & Ber 1101 14TH ST				
SUITE 500 WASHINGTO	N. DC 20005		ART UNIT PAPER NUMBER	
	-,		1796	
			MAIL DATE	DELIVERY MODE
			01/07/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(a)				
	10/591,057	Applicant(s)				
Office Action Summary	Examiner	SEO, YONKSOK Art Unit				
·	Nathan M. Nutter	1796				
- The MAILING DATE of this communication app						
Period for Reply	cars on the cover sheet wi	in the correspondence addre	133			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION THE COMMUNION THE COMMUNION THE COMMUNION ATTERNATION ATTERNATION ATTERNATION THE COMMUNION THE	CATION. epty be timely filed THS from the mailing date of this comm ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 Ju	ılv 2009					
	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4) Claim(s) 1-30 is/are pending in the application.						
4a) Of the above claim(s) <u>6-13.16.19.20.23.24.27 and 29</u> is/are withdrawn from consideration.						
5)☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,14,15,17,18,21,22,25,26,28 and 30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	7 .					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).				
a)⊠ All b) Some * c) None of:			:			
1. Certified copies of the priority documents	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not	received.				
Attachment(s)						
Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		yMail Date formal Patent Application				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Election/Restrictions

In the restriction requirement of 15 June 2009, claims 16 and 27, drawn to gas separation processes, should have properly been grouped with Group III.

Applicant's election of Group I and the species of A) polyethylene propylene diene terpolymer for the "amorphous (or low crystalline) thermoplastic resin," B) polyamide (nylons), for the "semi-crystalline polymer, and C) poly(styrene-co-maleic anhydride), for the compatibilizer, in the reply filed on 27 July 2009 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

The elected claims are 1-5, 14, 15, 17, 18, 21, 22, 25, 26/1, 28 and 30/1.

Specification

The disclosure is objected to because of the following informalities:

A substitute specification in proper idiomatic English and in compliance with 37 CFR 1.52(a) and (b) is required. The substitute specification filed must be accompanied by a statement that it contains no new matter.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 26 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 26, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 14, 17, 18, 21, 26/1, 28 and 30/1 are rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe et al (US 6,397,912).

The reference to Watanabe et al teaches the production of a film layer of a polymer blend that may comprise a polyamide, an ethylene propylene diene rubber and a compatibilizer that may comprise a styrene-maleic anhydride copolymer, as recited. Note column 13 (lines 9-37 and 38-63) for the polyamides and EPDM, and column 14 (lines 19-40) for the compatibilizer, that may comprise the specific copolymer. The quantities employed are taught for the constituents overlap at column 14 (lines 3-10). At the paragraph bridging, the reference teaches the employment of fillers, including clay

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at column 37 (lines 3-9). The patentees employ identical constituents in amounts that embrace those claimed herein. As such, identical morphologies would be expected, as well.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 14, 15, 17, 18, 21, 22, 25, 26/1, 28 and 30/1 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al (US 6,397,912), cited and for the reasons set out above.

The reference does not teach the production of an oriented film, per se, nor a thickness of a nanometer.

The film may be produced oriented, as herein recited in claims 15 and 22, based upon the suggestion of the patentees' disclosure at column 4 (lines 5-16). A skilled artisan would know to what suitable thicknesses the composition could be employed.

As such, the production of an oriented film and, of a film of particular thickness, would have been an obvious modification to an artisan having an ordinary skill in the art. Nothing unexpected or surprising has been shown on the record.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan M. Nutter whose telephone number is 571-272-1076. The examiner can normally be reached on 9:30 a.m.-6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nathan M. Nutter/ Primary Examiner, Art Unit 1796

nmn

8 November 2009